

## ABSTRACT

The application refers to a method for a layer by layer material removal from an arbitrarily shaped three-dimensional surface (1) by removal means, such as a laser, operating on the surface in a point-wise fashion, wherein the removal means is used to produce a surface structure (2) on the three-dimensional surface (1) and can be carried out by mapping the surface (1) on planar layers, whereby the surface structure is represented by raster images (3). These raster images (3a) include gray levels (5). The gray levels (5) correspond to the depth of the surface structure.